

ABSTRACT

The invention relates to an electrodynamically tilting contact system for power circuit breakers, whereby an actuating shaft segment (14), a rotary contact bridge (6) pivotally mounted therein and contact force springs (24) form components of a tilting snap-action mechanism, which holds the rotary contact bridge (6) in a repulsed position after an electrodynamically effected repulsion of fixed contacts (4). In order to improve the reproducibility of the tilting behavior while avoiding additional overall volume, two rockers (26), while serving as an additional component of the tilting snap-action mechanism, are mounted on the rotary contact bridge (6) in a manner that enables them to tilt. The contact force springs (24) are supported between the actuating shaft segment (14) and the rockers (26), whereby the spring longitudinal axes (48), the tilting axes (50) of the rockers (26), and the rotational symmetry axis (8) of the rotary contact bridge (6) are located in the tilting point plane (52) of the tilting snap-action mechanism. The rotary contact bridge (6) is mounted in the actuating shaft segment (14) via a bearing pin (12) and an elongated hole bearing (16) whose longitudinal axis (54), together with the tilting point plane (52), forms an, at most, acute angle perpendicular to the bearing pin (12).